

Scout Report sent out
Noted in the NID File
Location map pinned
Approval or Disapproval Letter
Date Completed, P. & A. or
operations suspended
Pin changed on location map
Affidavit and Record of A & P
Water Shut-Off Test
Gas-Oil Ratio Test
Well Log Filed

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5-1-58

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID Date Filed Office

Approval Letter

Disapproval Letter

COMPLETION DATA

Date Well Completed

OW

VW

TAL

GW

CS

PZ

Location Reported

Hand released

State of Fee Land

Driller's Log

Electric Logs (X&O)

LOGS FILED

EL

TL

SH

GR

GRN

WTR

Sonic

Others

Temperature
Resistivity

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
Navajo
Allottee _____
Lease No. 14-20-603-263

	17	0

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 23, 1957, 19

Navajo Tract 114
Well No. 16 is located 1980 ft. from ~~N~~ line and 1980 ft. from ~~W~~ line of sec. 17
NW SE Section 17 41S 25E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4547.4' ungraded ground.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rotary drilling equipment will be used to drill to approximately 5700' to test the potentially productive Hermosa and Paradox formations. Surface casing: Approximately 1400' of 10-3/4" OD 32.75# smls casing cemented to the surface. Oil String: 7" OD 20 # 23# smls casing as required cemented with required amount of cement. Mud: Conventional & or/gyp or salt base mud as required. Drill stem tests: All oil & gas shows will be tested. Logs: Electric/etc will be run before setting casing or logs

abandonment. Stimulation treatments such as acidizing or hydraulic fracturing may be employed in completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 444
Durango, Colorado
By B M Bradley
Title District Superintendent

COPY (ORIGINAL SIGNED) B. M. BRADLEY

Company.....THE CARTER OIL COMPANY.....

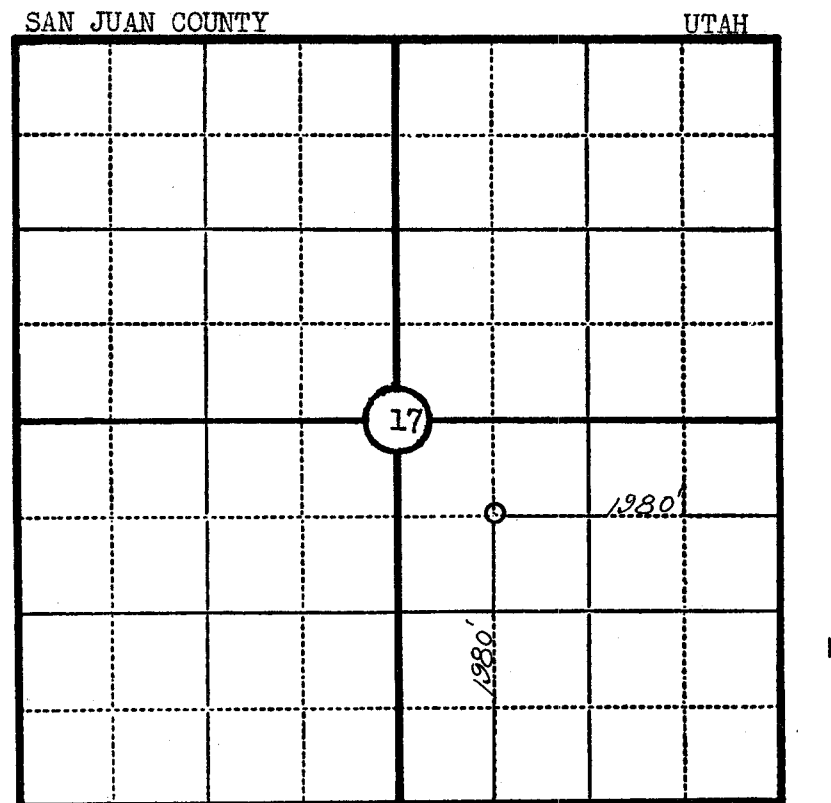
Lease.....Well No.....

Sec.....17....., T. 41 S....., R. 25 E., S.L.M.....

Location.....1980' FROM THE SOUTH LINE AND 1980' FROM
THE EAST LINE.....

Elevation.....4547.4 UNGRADED GROUND.....

TBM: 1 x 2 stake 346' N 45° E of location: 4546.2



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

James P. Leese
Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 6 October , 1957.....

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

The Carter Oil Company
P. O. Box 444
Durango, Colorado

Attention: E. M. Bradley, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notices of intention to drill Well No. Navajo Tract 114-15, which is to be located 1980 feet from the north line and 660 feet from the east line of Section 17, Township 41 South, Range 25 East, S1EM, and Well No. Navajo Tract 114-16, which is to be located 1980 feet from the south line and 1980 feet from the east line of Section 17, Township 41 South, Range 25 East, S1EM, San Juan County, Utah

Please be advised that insofar as this office is concerned, approval to drill the above mentioned wells is hereby granted.

This approval terminates within 90 days if the above mentioned wells are not spudded in within said period.

Yours very truly,

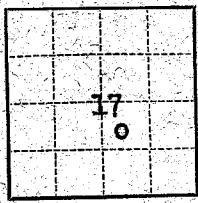
OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
SECRETARY

GNF:cn

cc: Phil McGrath
UNGS, Farmington,
New Mexico

IR-UNGS



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee _____
Lease No. 11-20-603-263

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 18, 1957, 19__

Navajo Tract 114
Well No. 16 is located 2070 ft. from SW line and 2310 ft. from E line of sec. 17
NW SE Section 17 41S 25E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. 4574.2' Ungraded

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

At the request of Mr. P. T. McGrath, District Engineer, U.S.G.S. this location is being moved from the original 1980' from S Line and 1980' from E line to provide space for adequate pits. All other details of work on the original Notice of Intention to Drill will remain the same.

New plat attached.

(Note: All of section 17 is under lease to The Carter Oil Co.)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil Company
Address Box 444
Durango, Colorado
By B. M. BRADLEY
B M Bradley
Title District Superintendent

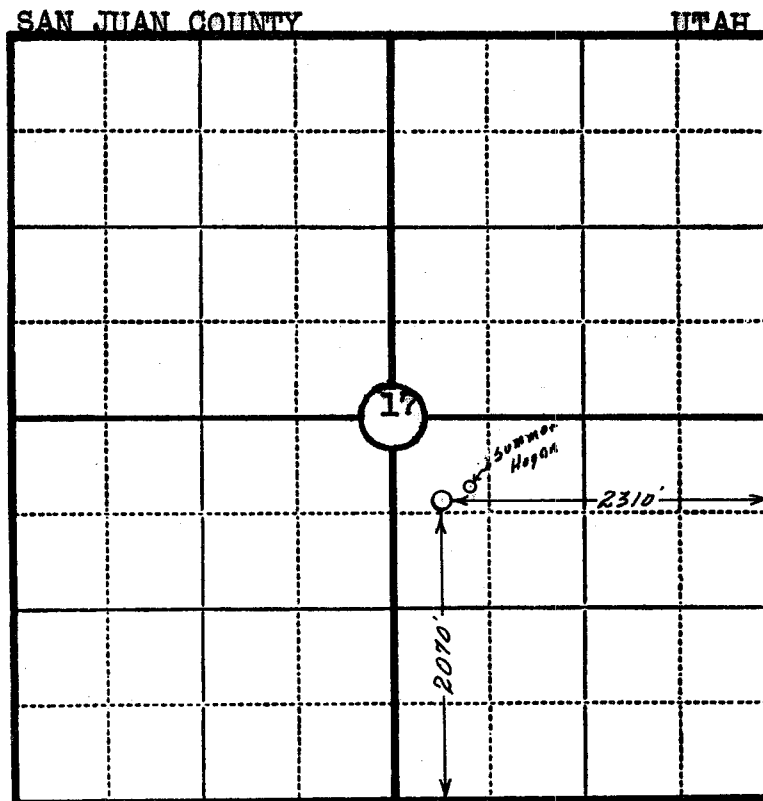
Company THE CARTER OIL COMPANY

Lease NAVAJO TRACT 114 Well No. 16

Sec. 17, T. 41S, R. 25E, S.L.M.

Location 2070' FROM THE SOUTH LINE & 2310' FROM THE EAST LINE

Elevation 4574.2' ungraded ground



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

James P. Leese

Registered Land Surveyor.

James P. Leese

Utah Reg. No. 1472

Surveyed 17 December, 1957

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

December 20, 1957

The Carter Oil Company
P. O. Box 444
Durango, Colorado

Attention: B. M. Bradley, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to change well location and drill Well No. Navajo Tract 114-16, 2070 feet from the south line and 2310 feet from the east line of Section 17, Township 41 South, Range 25 East, SLBM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well in said location is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
SECRETARY

CBF:en

cc: Phil McGrath
USGS, Farmington,
New Mexico

State Capitol Building
Salt Lake City 14, Utah

[illegible]

To be kept Confidential until _____
(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Operating Company The Carter Oil Company Address P.O. Box 3082, Durango, Colorado
Lease or Tract: Navajo Tract 114 Field McElmo State Utah
Well No. 16 Sec. 17 T. 41S R. 25E Meridian S1M County San Juan
Location 2070 ft. N of S Line and 2310 ft. W of E Line of Section 17 Elevation 4557'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date June 23, 1958

✓ B. M. BRADLEY
Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling February 9, 1958 Finished drilling March 11, 1958

COMPLETED: 4-2-58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from	5374	to	5390	No. 4, from	5485	to	5496
No. 2, from	5396	to	5433	No. 5, from		to	
No. 3, from	5443	to	5471	No. 6, from		to	

IMPORTANT WATER SANDS

No. 1, from 525 to 1000 No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
16"	Spiral Weld			199	None	-	-	-	-
10-3/4"	32.75#	8	H-40	1330	Baker	-	-	-	-
5 1/2"	15.5#	8	J-55	355	(Howco)	-	5374	5390	Production
5 1/2"	14	8	J-55	5226		-	5396	5433	"
							5443	5471	"
							5485	5496	"

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16"	201	220	Halliburton	-	-
10-3/4"	1346	1025	Halliburton	-	-
5 1/2"	5511	350	Halliburton	-	-

PLUGS AND ADAPTERS

MARK	W

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 5543 feet, and from - feet to - feetCable tools were used from None feet to - feet, and from - feet to - feet

DATES

June 22,, 19 58 Put to producing on test May 1,, 19 58

The production for the first 24 hours was 350 barrels of fluid of which 100 % was oil; - % emulsion; - % water; and - % sediment. Flow thru 1 1/2" Gravity, °Bé. 38.6° API choke.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. Est. GOR 550:1

EMPLOYEES

....., Driller , Driller

....., Driller , Driller

COMPLETED 4-2-58.

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>ELECTRIC LOG TOPS</u>			
0	525	525	SAN RAFAEL GROUP: Interbedded red sandstones and red shales.
525	1200	675	GLEN CANYON GROUP: Red sandstones.
1200	2358	1158	CHINLE: Interbedded sandstones and silty shales becoming very calcareous near the base with much limestone.
2358	4344	1986	CUTLER: Predominantly red shale with thin streaks sandstone, much anhydrite in lower portion.
4344	5194	850	HERMOSA: Upper 2/3 interbedded gray & brown shales, and dense limestone. Lower 1/3 dense light gray limestone locally cherty.
5194	5338	144	"A-2": Limestone, gray, dense, locally cherty locally fossiliferous.
5338	5497	159	PARADOX: Limestone & dolomite interbedded with traces anhydrite and black shale.
5497	5543	46	"C-1": Interbedded black shales, dolomite and anhydrite.

[OVER]

At the end of complete Driller's Log, add Geologic Tops. State whether from Electric Logs or samples.

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded well 2-9-58. Drilled and reamed 20" hole to 203'. Set 199' of 16" Spiral Weld casing @ 201' w/ 220 sx cement. Drilled and reamed 15" hole to 1347'. Set 1330' of 10-3/4" 32.75#, H-40 casing @ 1346' w/ 1025 sx cement. Drilled 8-3/4" hole to TD of 5543'. Set 5581' of 5 1/2" OD, 15.5# & 14# J-55 casing @ 5541' w/ 350 sx cement.

CUT 5 CORES - See attached descriptions.

COMPLETION: PBTD 5509'. Perforated 5496-5485' & 5471-5443' w/ 4 holes per ft. Spotted 300 gal MCA across perforations, let set 30 min and reversed out. Spotted reg 15% acid on perforations, set packer @ 5430' and acidized w/ 5600 gal. Max press 4000#, min press 3800#, average injection rate 2.5 bbl/min, flushed w/ 33 bbls crude. Shut in press 3800# on tubing. Flowed to clean up for 14 hrs and well died. Swabbed on 3 hr test @ rate of 216 BO/day. Pulled tubing and packer.

Set bridge plug @ 5436'. Perforated 5433-5396' & 5390-5374' w/ 4 holes per ft. Spotted 500 gal MCA across perforations, pressured up to 700# and held for 30 min, reversed out. Spotted regular 15% acid on perforations, set packer @ 5356'. Treated w/ 9200 gal regular 15% acid & 600 gal Fix-a-Frac in 3 stages as follows: 3000 gal acid in formation @ 3.9 bbl/min, max press 3400#, min press 2600#, followed by 10 bbls crude, then 300 gal Fix-A-Frac & 10 bbls crude, followed by 3200 gal acid. Slowed pump while fix-a-frac hit formation @ 3000#, no apparent increase until pump speeded up, then increased from 3400# to 4000#, press broke back to 3400#. Injection rate 4.7 bbls/min, max press 4000#, min press 3300#, followed by 10 bbls crude, then 300 gal fix-a-frac and then 10 bbls crude + 3000 gal acid, flushed w/ 33 bbls crude, max press 3700#, min press 3400#, average injection rate 17 bbls/min @ 3500#. Standing pressure in 5 min 3200#. Swabbed and flowed to clean up then flow tested for 3 hrs on 1/2" choke @ rate of 384 bbls/day. Pulled tubing and packer.

Drilled and drove bridge plug to 5508'.

Ran tubing and flow tested from all perforations on 1/2" choke for completion.

Flowed at rate of 350 BO and no water per day from perforations 5374-5390'; 5396-5433'; 5443-5471' & 5485-5496' in Paradox formation.

CAR-PRO-108
CORE DESCRIPTION

CORE NO.	1 - 2 - 3 - 4 & 5	POOL OR UNIT	McElmo Pool 70M 30 1028
DEPTH	5290' to 5493	WELL AND NO.	Navajo Tract 114 #16
RECOVERY	199' (4' not rec.)	LOCATION	NW SE Sec 17-41S-25E
FORMATION		COUNTY	San Juan
DATE		STATE	Utah

CORE NO. 1: 5290' to 5328'. Cut 38', rec. 38'. 5' of siltstone, dark brown and 33' of limestone, brown & tan, skeletal & matrix.

CORE NO. 2: 5328' to 5381'. Cut 53', rec. 53'. 6' limestone, matrix & skeletal, no visible porosity, no show. 29' shale, black. 2' limestone matrix, no show, no porosity. 16' dolomite, 10' with spotty pin point porosity & show and 3' with spotty fluorescence but no visible porosity, 3' no porosity, no show.

CORE NO. 3: 5381' to 5431'. Cut 50', rec. 50'. 6' dolomite with very fine pin point porosity and yellow uniform fluorescence. 1' limestone with yellow fluorescence but no visible porosity. 7' dolomite with fine pin point porosity and uniform fluorescence. 4' limestone, 2' with pinpoint porosity. 14' dolomite with 11' of porosity, spotty to uniform fluorescence. 1' limestone, no show, no porosity. 15' dolomite with very fine pin point porosity, (inclusion of anhydrite) uniform yellow fluorescence. 1' limestone, light, no show. 1' dolomite with shale inclusion, pinpoint porosity and fluorescence. Total porosity of core 42'.

CORE NO. 4: 5431' to 5483'. Cut 52', rec. 52'. 52' of interbedded dolomite & limestone, matrix & skeletal with a total of 8' visible porosity. 30' dolomite matrix & skeletal & 22' limestone matrix & skeletal.

CORE NO. 5: 5483' to 5493'. Cut 10', rec. 6'. 4' dolomite, matrix, 1' with visible porosity. 2' limestone, matrix, no visible porosity or show. (4' not recovered, probably shale.)

CORE HEAD TYPE & SIZE

DESCRIBED BY

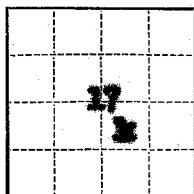
(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee

Lease No. **14-20-603-263**



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Casing Record	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 10, 1959

Navajo Tract 114
Well No. **16** is located **2070** ft. from **SW** line and **2310** ft. from **E** line of sec. **17**
NW 1/4 Section 17 **41S** **25E** **S1M**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4557** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 16" casing @ 201', cemented with 220 sacks cement.

Set 10-3/4" casing @ 1346', cemented with 1025 sacks cement.

Set 5-1/2" casing @ 5541', cemented with 350 sacks cement.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Carter Oil Company**

Address **Box 3082**

Durango, Colorado

By **COPY (ORIGINAL SIGNED) B. M. BRADLEY**

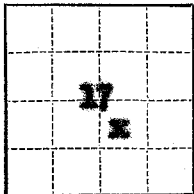
Title **Dist. Supt.**

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. 14-20-603-263

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 10, 19 59

Navajo Tract 114
Well No. 16 is located 2070 ft. from SW line and 2310 ft. from E line of sec. 17
NW SE Section 17 **41S** **25E** **SLM**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McIlino Creek **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4557 ft.

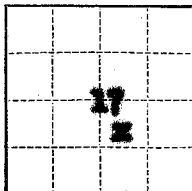
DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated 5443-71' and 5485-96' with four shots per foot. Spotted 300 gal. MCA. Across perforations, acidized with 5600 gallons reg. 15% acid. Flowed 1 1/2 hours for 91 b.o., well died. Set bridge plug @ 5436', perforated 5374-90' and 5396-5433' with 4 shots/ft. Acidized with 500 gal. MCA and 9200 gal. regular 15% acid and 600 gal. Fix-a-frac. Tested 3 hours on 1/2" choke, flowed at rate of 384 b.o.p.d. Killed well, drilled out plug @ 5436' and drove to 5508'. Completed as oil well on 1/2" choke, flowing @ rate of 350 b.o.p.d. Completion date 4-2-58.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Carter Oil CompanyAddress Box 3082Durango, ColoradoBy **COPY (ORIGINAL SIGNED)** B. M. BRADLEYTitle Dist. Supt.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYIndian Agency **Navajo**
Allottee _____
Lease No. **11-20-601-263**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	RECONDITION WELL IN PRESENT ZONE	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 7, 1959

Navajo Tract 11h
Well No. **16** is located **2070** ft. from **24** line and **2110** ft. from **E** line of sec. **17**
NW SE Section 17 **41S** **25E** **81M**
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4557** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This well originally completed April 2, 1958, flowing 350 b.o.p.d. through perforations 5374-90', 5396-5433', 5443-71' and 5485-96. The initial acid treatment consisted of 14,000 gal. reg. acid and 800 gal. MIA. Reconditioning of this well started 7-1-59, acidized the above perforations with 30,000 gal. Howell IFW 15% acid, max. press. 3000#, min. press. 2200#, inj. rate 21.8 bbls. per minute, plus 120 gal. F agent plus 150 gal. W agent. Ran 18,100 gal. acid, dropped 160 nylon balls, press. 3000#, no increase after dropping balls. Ran 5700 gal. acid, dropped 70 nylon balls, press. 2300#, when nylon balls hit perf., press. raised to 3000#. Flushed with 132 bbls. oil. Testing. Well workover completed on 7-22-59, pumping and flowing through 3/4" choke at rate of 262 bbls. oil and no water per day.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Carter Oil Company**Address **Box 3082****Durango, Colorado**By **COPY (ORIGINAL SIGNED) B. M. BRADLEY**Title **Dist. Supt.**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPI
(Other instructions
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-602-262

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek

8. FARM OR LEASE NAME

9. WELL NO.

#P-23

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Unit

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 17, T41S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Drawer 'G', Cortez, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

2070' FSL, 2310' FEL

NW SE Sec. 17, T41S, R25E

San Juan County, Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4558' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Convert to Injection

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to convert to water injection well as follows:

Set packer at 5340' on plastic lined 2-7/8" tubing.

Treat with 15,000 gallons 28% acid.

Place on injection.

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

DATE: 12/20/65 by Paul H. Burchell

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

Production Engineer

DATE 12/16/65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DDK/njh

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN _____ DATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> <u>Water Injection</u>	5. LEASE DESIGNATION AND SERIAL NO. <u>14-20-602-262</u>
2. NAME OF OPERATOR <u>The Superior Oil Co.</u>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>Navajo</u>
3. ADDRESS OF OPERATOR <u>P. O. Drawer "G" Cortez, Colorado</u>	7. UNIT AGREEMENT NAME <u>McElmo Creek</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>2070' FSL, 2310 FEL</u> <u>NW SE Sec 17, T41S, R25E</u> <u>San Juan County, Utah</u>	8. FARM OR LEASE NAME <u>McElmo Creek Unit</u>
14. PERMIT NO.	9. WELL NO. <u>P-23</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>4558 KB'</u>	10. FIELD AND POOL, OR WILDCAT <u>McElmo Creek Unit</u>
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 17, T41S, R25E</u>
	12. COUNTY OR PARISH <u>San Juan</u>
	13. STATE <u>Utah</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Water Injection ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Ran Taylor Tube Seal Plastic Lined 2 7/8" tbg.
Set Packer at 5327
Started injection 12/23/65

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. KingmanTITLE Production EngineerDATE 1/11/66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-602-262

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek

8. FARM OR LEASE NAME

9. WELL NO.

P-23

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Unit

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 17, T41S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER WATER INJECTION

2. NAME OF OPERATOR

THE SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, COLORADO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface2070' FSL & 2310 FEL
NW SE Sec. 17, T41S, R25E
San Juan County, Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4558' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SURSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHORTENING OR ACIDIZING ☒(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Treated well with 15,000 gallons 28% iron acid in three equal stages using 750
gallon salt plugs between stages.
Returned well to injection.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

Production Engineer

DATE 3/15/66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

MJE/njh

*See Instructions on Reverse Side

McELMO CREEK UNIT #P-23
 NW SE Sec. 17, T41S, R25E
 2070' FSL, 2310' FEL
 San Juan County, UTAH

WATER INJECTION WELL

FIELD: McELMO CREEK

KB: 4558' DF: 4557' GL: 4546' TD: 5543' PBSD: 5508' TLD: 11.00'
 TOC: 4310' (temp)

SPUDDED: 2-9-58 COMPLETED: 4-2-58

INJECTION ZONES: DESERT CREEK ZONES I, II, & III

PERFS: Zone I: 5374-90', 5396-5418' (4 Jets/ft.)
 Zone II: 5418-33', 5443-71' (4 Jets/ft.)
 Zone III: 5485-96' (4 Jets/ft.)

CASING: 16" 53.1# SJ Armco SW to 201'
 10-3/4" 32.75# H-40 ST&C to 1346'
 5 1/2" 14 & 15.5# J-55 Smls ST&C to 5541'

TUBING: 2-7/8" 6.5# J-55 8R EUE lined w/TK-75, run to 5331'

PACKERS: 5 1/2" Baker Lok-Set lined w/TK-69, set w/20,000# set down, set @ 5327'.

PMPG. EQUIP: Injection Equipment

WELL HEAD: 6" Ser. 600 Cameron Type 'F'

3-30-58 Acidized 2 lower, then 2 upper perfs w/a total of 15,600 gals.
 acid. Avg. final pressure 3500#.

7-1-59 Acidized w/48,000 gals. 15% acid. Final pressure 2800#.

12-23-65 Well placed on injection.

2-14-66 Treated all perfs w/15,000 gals. 28% Iron Acid in 3 equal
 stages. Avg. pressure 6200#, ISIP 3750#, 15 mins. 3450#.

4-2-76 Replaced tubing string.

INITIAL WELL TEST

McELMO CREEK UNIT #P-23

DATE March 8, 1958

OIL BBL/DAY 360

OIL GRAVITY 38.6

GAS CU.FT/DAY 198,000 CF

GAS-OIL RATIO CU/FT/BBL 550

WATER BBL/DAY 0

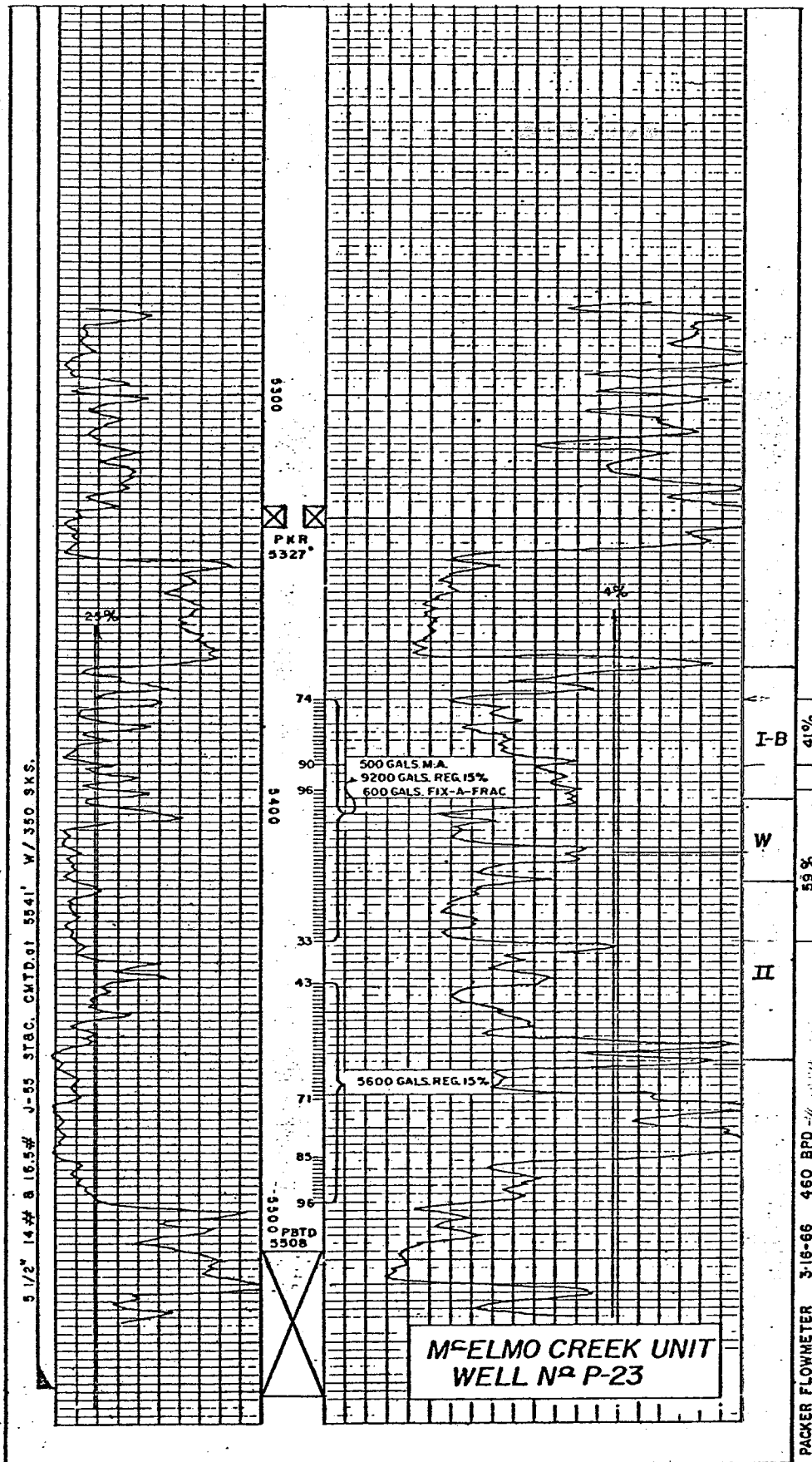
PUMPING/FLOWING F

CHOKE SIZE 1/2

FLOW TUBING PRESSURE 40

12-23-65: Ran Taylor Tube Seal
Plastic Lined 2 7/8" Tubing.
Set Packer at 5327'
Converted to Injection Well.

3-15-66: Treated W/15,000 gals.
28% iron acid in 3 equal stages using
750 gal salt plugs between stages.



McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR
NW SE. SEC.17, T41S, R25E.
SAN JUAN COUNTY, UTAH.
ELEV. 4558' K.B. T.D. 5543'

Well No. P-23

McElmo Creek Unit

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

- (b) (1) Plat #1.
(2) Well Data Sheets.
(3) Well Data Sheets & Logs.
(4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.
Maximum Rate: 4000 BWPd.

<u>FORMATION</u>	<u>DEPTH</u>	<u>LITHOLOGY</u>
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HCO3: 109.8 ppm	Na: -
CaCO3: 18470 ppm	CO3: -	Specific Gravity: 1.0553

McElmo Creek Unit

(5) Cont.

(iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.

(v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.

(vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6	Ca: 17410 ppm	SO4: 33 ppm
CL: 34800 ppm	Mg: 11518 ppm	H2S: 10 ppm
Fe: 1.5 ppm	HCO3: 48.8 ppm	Ba: -
CaCO3: 22150 ppm	CO3: -	Specific Gravity: 1.0902

(6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.

(7) N/A.

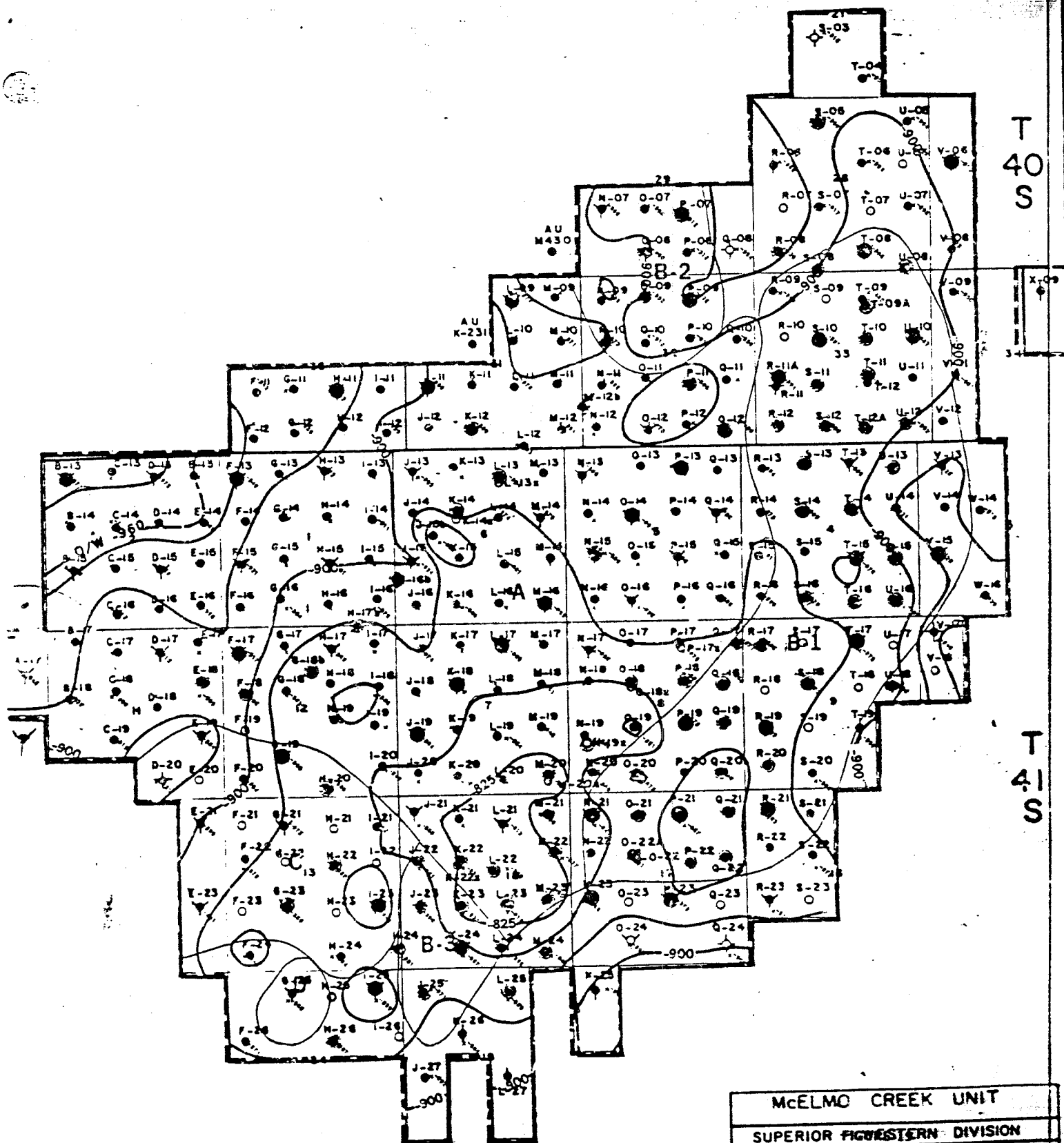
(8) The Division will be notified of the date and time to monitor the mechanical integrity test.

(9) N/A.

(10) N/A.

R24E

R25E



LEGEND

- FUTURE LOCATION
- DRILLING WELL (STATUS)
- OIL WELL
- ▽ WATER INJECTION WELL
- ⊙ DUAL SERVICE, INJ/PROD

O/W CONTACT -960

0 2000' 4000'

McELMO CREEK UNIT

SUPERIOR WESTERN DIVISION

McELMO CREEK UNIT
SAN JUAN COUNTY, UTAH

SUPERIOR OF THE WESTERN DIVISION

BY: ~~TOP OF OIL~~

DESERT CREEK LIMESTONE, UTAH

DATE: 4-14-73

BY:

DATE:

CHECKED:

SCALE:

C.T.: 25ft.

DRAWN BY:

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. McElroy Creek Unit P23
 County: San Juan T 41S R 25E Sec. 17 API# 43-037-16370
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<u>Desert Creek - Jolley</u>	

Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>60,000</u>
Analysis of Water in Formation to be injected into	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>70,000</u>

Known USDW in area Narajo-Chundi Depth 1300
 Number of wells in area of review 10 Prod. 4 P&A 1
 Water ☒ Inj. 3

Aquifer Exemption Yes ☐ NA ☒

Mechanical Integrity Test Yes ☒ No ☐

Date 4-22-84 Type Water Flood Garry

Comments: _____

Reviewed by: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPI
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME
McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.
#P-23

10. FIELD AND POOL, OR WILDCAT
GREATER ANETH

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SEC. 17, T41S, R25E, SLM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

DF: 4557'

12. COUNTY OR PARISH
SAN JUAN

13. STATE
UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 1-18-85: MIRU. Bled well to pit. POH & LD 2-7/8" injection string & 7" pkr. PU & RIH w/ bit, scraper, & 2-7/8" workstring.
1-19-85: Tagged PBTD at 5504'. POH w/ tbq, bit & scraper. RIH w/ tbq, RBP & pkr.
1-21-85: Selectively acidized Desert Creek perms (5374'5496' O/A) w/ 7000 gals 28% HCL.
1-22-85: Swabbed.
1-23/24-85: POH w/ tbq, pkr & RBP. RIH w/ CO₂ injection equipment.
Set P.C. permanent pkr at 5343'. ND BOP's & NU S.S. wellhead. RDMO.
1-25-85: Placed well back on water injection.

RECEIVED

FEB 11 1985

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

T. Greg Merriam

TITLE

Sr. Operations Engineer

DATE

2-7-85

(This space for Federal or State office use)

APPROVED BY

Clorn B. Feight

TITLE

VIC Manager

DATE

2/19/85

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different formation.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> INJECTION WELL		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-263
2. NAME OF OPERATOR MOBIL OIL CORP AS AGENT OF SUPERIOR OIL		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, CO 81321		7. UNIT AGREEMENT NAME MCELMO CREEK
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2070' FSL, 2310' FEL		8. FARM OR LEASE NAME —
14. PERMIT NO. 43-037-16370	15. ELEVATIONS (Show whether OF, RT, GR, etc.) DF: 4557'	9. WELL NO. E-23
		10. FIELD AND POOL OR WILDCAT GREATER ANETH
		11. SEC., T., R., M., OR BLK. AND SUBST OR AREA Sec 17, T41S, R25E
		12. COUNTY OR PARISH SAN JUAN
		13. STATE UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>CO2 INJECTION</u> <input checked="" type="checkbox"/>	

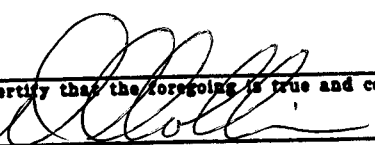
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Carbon Dioxide injection was initiated in this well on Feb 28, '85

18. I hereby certify that the foregoing is true and correct

SIGNED


 D. C. Collins
 (This space for Federal or State office use)

TITLE Sr Staff Op Engr

DATE 1.9.86

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)
 FOR THE CORTEZ SUPERVISOR AREA
 FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TOWNSHIP	RNG	WELL TYPE	A T	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELMO CREEK	N-11 ✓	SAN JUAN	UT	NW	SE	32-403-25E	INJ	OP	43-037-15965	14-20-603-372		96-004190
	N-13 ✓	SAN JUAN	UT	NW	NW	05-413-25E	INJ	OP	43-037-15966	14-20-603-372		96-004190
	N-15 ✓	SAN JUAN	UT	SW	NW	05-413-25E	INJ	OP	43-037-05671	14-20-603-372		96-004190
	N-17 ✓	SAN JUAN	UT	NW	NW	08-413-25E	INJ	OP	43-037-05597	14-20-603-263		96-004190
	N-19 ✓	SAN JUAN	UT	NW	SW	08-413-25E	INJ	OP	43-037-05540	14-20-603-263		96-004190
	N-21 ✓	SAN JUAN	UT	NW	NW	17-413-25E	INJ	OP	43-037-05492	14-20-603-263		96-004190
	N-23 ✓	SAN JUAN	UT	NW	SW	17-413-25E	INJ	OP	43-037-16364	14-20-603-263		96-004190
	O-12 ✓	SAN JUAN	UT	SE	SW	32-403-25E	INJ	OP	43-037-16371	14-20-603-372		96-004190
	O-14 ✓	SAN JUAN	UT	SE	NW	05-413-25E	INJ	OP	43-037-16365	14-20-603-372		96-004190
	O-16 ✓	SAN JUAN	UT	SE	SW	05-413-25E	INJ	OP	43-037-15969	14-20-603-372		96-004190
	O-18 ✓	SAN JUAN	UT	SE	NW	08-413-25E	INJ	OP	43-037-05585	14-20-603-263		96-004190
	P-07 ✓	SAN JUAN	UT	NW	SE	29-403-25E	INJ	OP	43-037-05828	I-149-IND-8839-A		96-004190
	P-09 ✓	SAN JUAN	UT	NW	NE	32-403-25E	INJ	OP	43-037-16367	14-20-603-372		96-004190
	P-11 ✓	SAN JUAN	UT	NW	SE	32-403-25E	INJ	OP	43-037-15971	14-20-603-372		96-004190
	P-13 ✓	SAN JUAN	UT	NW	NE	05-413-25E	INJ	OP	43-037-16368	14-20-603-372		96-004190
	P-15 ✓	SAN JUAN	UT	NW	SE	05-413-25E	INJ	OP	43-037-16340	14-20-603-372		96-004190
	P-17 ✓	SAN JUAN	UT	NW	NE	08-413-25E	INJ	OP	43-037-15976	14-20-603-263		96-004190
	P-19 ✓	SAN JUAN	UT	NW	SE	08-413-25E	INJ	OP	43-037-05555	14-20-603-263		96-004190
	P-21 ✓	SAN JUAN	UT	NW	NE	17-413-25E	INJ	OP	43-037-05487	14-20-603-263		96-004190
	P-23 ✓	SAN JUAN	UT	NW	SE	17-413-25E	INJ	OP	43-037-16370	14-20-603-263		96-004190
	Q-12 ✓	SAN JUAN	UT	SE	SE	32-403-25E	INJ	OP	43-037-05720	14-20-603-372		96-004190
	Q-14 ✓	SAN JUAN	UT	SE	NE	05-413-25E	INJ	OP	43-037-15974	14-20-603-372		96-004190
	Q-16 ✓	SAN JUAN	UT	SE	SE	05-413-25E	INJ	OP	43-037-15975	14-20-603-372		96-004190
	R-11 ?	SAN JUAN	UT	NW	SW	33-403-25E	INJ	SI	43-037-05741	14-20-603-2057		96-004190
	R-11A ✓	SAN JUAN	UT	NW	SW	33-403-25E	INJ	OP	43-037-30179	14-20-603-2057		96-004190
	R-13 ✓	SAN JUAN	UT	NW	NW	04-413-25E	INJ	OP	43-037-05709	14-20-603-2057		96-004190
	R-17 ✓	SAN JUAN	UT	NW	NW	07-413-25E	INJ	OP	43-037-05602	14-20-603-359		96-004190
	R-19 ✓	SAN JUAN	UT	NW	SW	09-413-25E	INJ	OP	43-037-05554	14-20-603-359		96-004190
	R-21 ✓	SAN JUAN	UT	NW	NW	16-413-25E	INJ	OP	43-037-16374	14-20-603-359		96-004190
	R-23 ✓	SAN JUAN	UT	NW	SW	16-413-25E	INJ	OP	43-037-15977	14-20-603-359		96-004190

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Other instruction
verse side)

TE
re

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-263

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

MCELMO CREEK

8. FARM OR LEASE NAME

-

9. WELL NO.

P-23

10. FIELD AND POOL, OR WILDCAT

GREATER ANETH

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 17, T41S, R25E

12. COUNTY OR PARISH 13. STATE

SAN JUAN

UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ CO2/WATER INJECTION WELL

2. NAME OF OPERATOR

MOBIL OIL CORP AS AGENT FOR MOPNA

3. ADDRESS OF OPERATOR

P. O. DRAWER 'G', CORTEZ, CO

4. LOCATION OF WELL (Report location clearly and in accordance with state requirements.*
See also space 17 below.)
At surface

2070' FSL, 2310' FEL

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

DF: 4557'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

REPAIR CASING LEAKS

XX

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

The subject well was recently entered to repair a suspected
tbg/pkr leak. After closing the downhole shut off valve and re-
leasing the on/off tool, the tubing became stuck four feet above
the pkr. The tbg was cut off two jts above the tail and pulled.
Efforts to fish the tubing have been unsuccessful due to entry of
formation material leading to the conclusion that a casing leak
exists. Subsequent testing indicates casing leaks between 3719'
and 3750' and below 5190'.

We plan to squeeze cement both leaks and return the well to
injection.

NOTE: Verbal approval to procede with this work was granted by
Mr. Steve Mason on 6/13/86.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Collins

TITLE Sr Staff Op Engr

DATE 6/13/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 6/25/86
BY: [Signature]

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <u>CO2/WATER INJECTION WELL</u>	5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-263
2. NAME OF OPERATOR MOBIL OIL CORPORATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, CO 81321	7. UNIT AGREEMENT NAME MCELMO CREEK
4. LOCATION OF WELL (Report location clearly and in accordance with the "B.L.M. Manual". See also space 17 below.) At surface 2070' FSL, 2310' FEL	8. FARM OR LEASE NAME -
14. PERMIT NO.	9. WELL NO. P-23
15. ELEVATIONS (Show whether DF, RT, OR, etc.) DF: 4557'	10. FIELD AND POOL, OR WILDCAT GREATER ANETH
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 17, T41S, R25E
	12. COUNTY OR PARISH SAN JUAN
	13. STATE UTAH

RECEIVED
JUL 07 1986

DIVISION OF
OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>REPAIR CASING LEAK</u> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

06/05/86 MIRU. Bled down casing. Bled down tbq.
06/06/86 SD waiting on brine water.
06/07/86 SD waiting on brine water.
06/08/86 SD for Sunday.
06/09/86 Bled down casing. Bled down tbq. Closed downhole shut-off valve. Released on/off tool. Worked tbq 4' up hole and tbq stuck.
06/10/86 Ran free point to 5320', obstruction in tbq. Ran chem cutter and cut tbq @ 5302'. PU fishing tools and work string and RIH. Hit tight spot @ 5134'. POOH.
06/11/86 RIH w/ overshot, tools and tbq. Attempted to circ fill off fish. Plugged tools. POOH. RIH to fill at 5106' and circ. PU 20 stds and SD.
06/12/86 RIH and CO to 5285'. POOH. RIH w/ pkr. Located hole between 3719' and 3750'. RIH to 5196' and pulled 25 stds.
06/13/86 Fin POOH. RIH w/ BP and pkr. Set BP @ 5210'. Tested casing. Found leaks between 3719' and 3940'. POOH w/ pkr and BP.

(Continued on attached page)

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Collins

TITLE Sr Staff Op Engr

DATE 7/01/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

McElmo Creek Unit P-23

06/14-15/86 SD () weekend.
06/16/86 RU to Log. Ran CCL and pipe inspection log. RIH w/
injection string. Circ in inhibited FW.
06/17/86 LD injection string. RDMO. Evaluating for repair.

CO₂ inj Feb. '85Repairs
casing 2/86

Converted 1965

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TESTOPERATOR: MEPNAFIELD: Greater AnethLEASE: McElmo CreekWELL # P-23(114-16)SEC. 17TOWNSHIP 41SRANGE 25ESTATE FED. FEE DEPTH 5543TYPE WELL INJWMAX. INJ. PRESS. 2800 psi

PBTD 5508'

CO₂ Tracer 3/11/86

4000 BHPD

TEST DATE 9/10/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>16"</u>	<u>201</u>			<u>Shut-in due to</u>	
<u>INTERMEDIATE</u>	<u>10³/₄</u>	<u>1346</u>			<u>previous test</u>	
<u>PRODUCTION</u>	<u>5¹/₂</u>	<u>5541</u>			<u>of 110# or</u>	
					<u>bradenhead</u>	
<u>TUBING</u>	<u>2⁷/₈</u>	<u>5331</u>				

Baker Log Set Pk at 5327

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI
(Other Instructions
verse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <u>CO₂ Injector</u>	5. LEASE DESIGNATION AND SERIAL NO. <u>14-20-603-263</u>
2. NAME OF OPERATOR <u>Mobil Oil Corporation</u>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>Navajo</u>
3. ADDRESS OF OPERATOR <u>P.O. Drawer G, Cortez, Co 81321</u>	7. UNIT AGREEMENT NAME <u>McElmo Creek</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <u>2070' FSL. 2310' FEL</u>	8. FARM OR LEASE NAME <u>-</u>
14. PERMIT NO.	9. WELL NO. <u>P-23</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>DF: 4557'</u>	10. FIELD AND POOL, OR WILDCAT <u>Greater Aneth</u>
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec 17, T4S, R2SE, SLM</u>
	12. COUNTY OR PARISH <u>San Juan</u>
	13. STATE <u>Utah</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

PULL OR ALTER CASING ☐

FRACTURE TREAT ☐

MULTIPLE COMPLETE ☐

SHOOT OR ACIDIZE ☐

ABANDON* ☒

REPAIR WELL ☐

CHANGE PLANS ☐

(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

REPAIRING WELL ☐

FRACTURE TREATMENT ☐

ALTERING CASING ☐

SHOOTING OR ACIDIZING ☐

ABANDONMENT* ☐

(Other) ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

We have determined that the subject well cannot be economically repaired and therefore propose abandonment of the well as per the attached procedure and sketch. We plan to perform the abandonment in late 4th Qtr 1987 or during the first Qtr 1988.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/14/87
BY: AKT

RECEIVED
SEP 14 1987

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

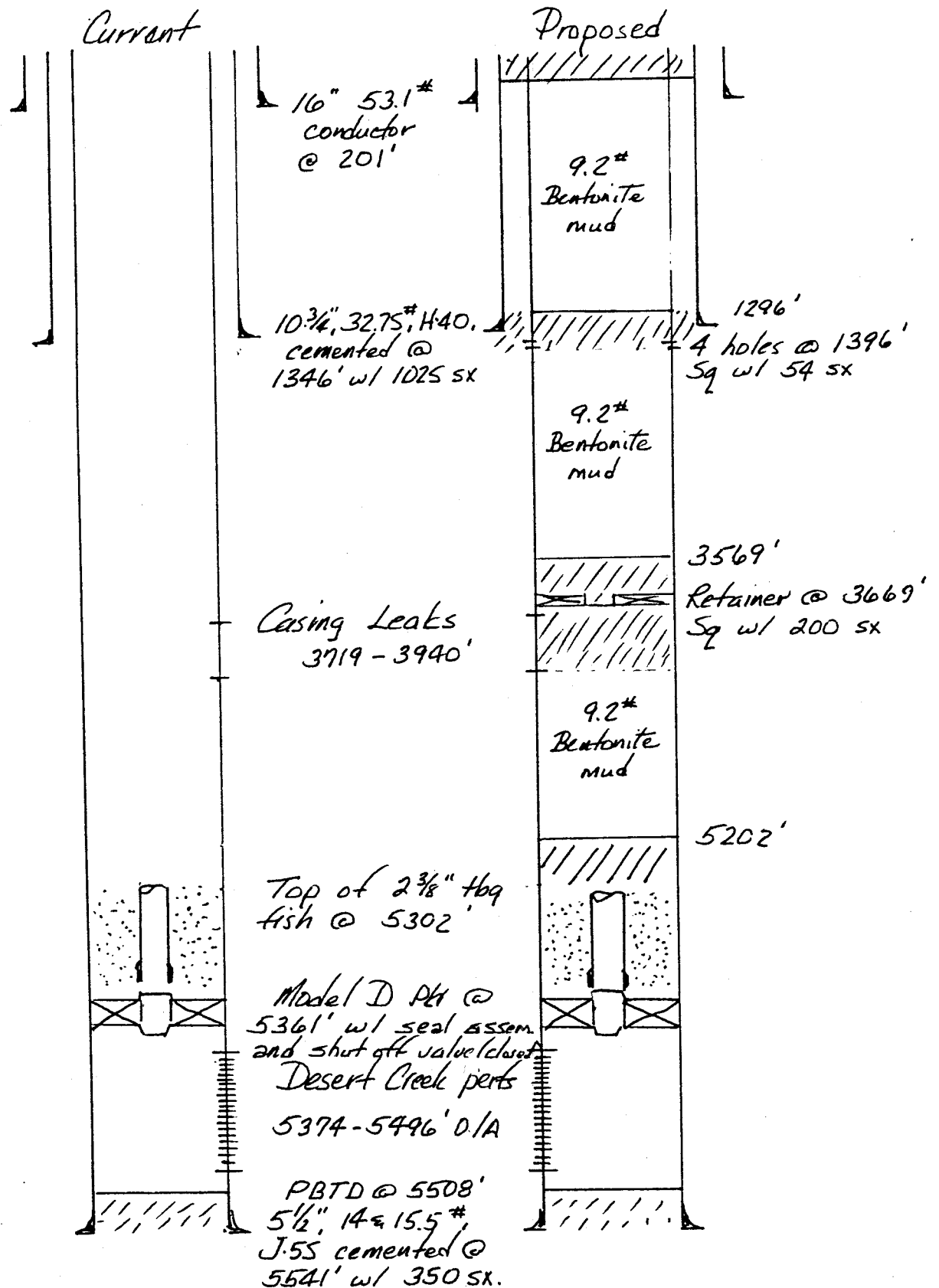
*See Instructions on Reverse Side

McELMO CREEK UNIT P-23
GREATER ANETH FIELD
SAN JUAN COUNTY, UTAH

PLUG AND ABANDONMENT PROCEDURE

1. MRO. Bleed down casing. Install and test BOP'S.
 2. RIH w/ 4-7/8" bit and 5-1/2" casing scraper to 3700'.
POOH. RIH W/ OET circ out fill to top of fish @ 5302'.
 3. Equalize 100 foot cement plug (13.7 cu ft slurry) @
5302'.
- NOTE: Notify BLM 24 hrs prior to beginning plugging
operations.
4. Circ in 30.0 bbls 9.2# bentonite mud on top of cement.
 5. RIH w/ cement retainer and set @ 3669'. Stab into
retainer and squeeze leaks 3719-3940' w/ 200 sx Class B
cement. Pull out of retainer and equalize 100' cement
plug on top of retainer.
 6. Circ in 51.7 bbls 9.2# bentonite mud on top of cement.
POOH.
 7. Shoot 4 holes @ 1396'. RIH open-ended and spot 54 cu
ft cement slurry @ 1396'. POO cement and displace top
of cement to 1296'.
 8. Fill hole w/ 9.2# bentonite mud (26.2 bbls).
 9. Place 100' neat cement plug at surface inside and out-
side 5-1/2" casing. RDMO.
 10. Cut off wellhead and weld on dry hole marker. Restore
location as per BLM requirements.

McElmo Creek Unit P-23
 Greater Aneth Field
 San Juan County, Utah



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well ☒ Gas Well ☒ Other: Injection Well ☒

2. Name of Operator
MOBIL OIL CORPORATION

3. Address of Operator
P. O. DRAWER 6, CORTEZ, CO. 81321

4. Location of Well

2070' FSL, 2310' FEL

14. Permit No.

15. Elevations (DF, RT, GR)
DR: 4557'

5. Lease Designation &
Serial No.
14-20-603-263

6. If Indian, Allottee or Tribe Name
NAVAJO

7. Unit Agreement Name
McElmo Creek

8. Farm or Lease Name

9. Well No. 43-037-16370
P-23

10. Field and Pool, or Wildcat
Greater Aneth

11. Sec. T,R,M or BLK and
Survey or Area
Section 17, T41S,R25E

12. County, Parish 13. State
Jan Juan Utah

030745

FEB 29 1988

DIVISION OF
OIL, GAS & MINING

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:

Test Water Shut-off ☒ Pull or Alter Casing ☒
Fracture Treat ☒ Multiple Complete ☒
Shoot or Acidize ☒ Abandonment ☒
Repair Well ☒ Change Plans ☒
(Other) ☒

Subsequent Report of:

Water Shut-off ☒ Repairing Well ☒
Fracture Treatment ☒ Altering Casing ☒
Shooting/Acidizing ☒ Abandonment ☒ /XX/
(Other) ☒

(NOTE: Report results of multiple completion on
Well Completion or Recompletion Report and Log Form.)

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) *

2-02-88 MTRU. Bled well dwn. ND tree. NU BOPs. PU and RIH w/ 5-1/2" casing scraper and 92 jts 2-7/8' work string.

2-03-88 SD for day.

2-04-88 Bled well dwn. Fin RIH to 3700'. POOH. RIH open ended to fill @ 4316'. Circ out fill to 5223. POOH w/ 30 stds.

2-05-88 Fin POOH. RIH w/ retainer and set @ 4792'. Unable to pump into well below retainer. POOH. RIH w/ sandline drill. Made two runs with drill and went thru 5-1/2" csg. POOH and laid dwn drill.

2-06-88 SD for weekend.

2-07-88 SD for weekend.

2-08-88 Perf'd 4 shots per foot 4728-29' and 1396'. RIH and set retainer @ 4637'. Circ around 5-1/2" csg,
(Continued on Attached Sheet)

18. I hereby certify that the foregoing is true and correct

Signed:

D. C. Collins

Title: Sr Staff Op Engr Date: 02-26-88

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

(This space for Federal or State office use)

APPROVED BY

TITLE:

CONDITIONS OF APPROVAL, IF ANY:

DATE: 3-3-88

BY: John R. Davis

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

McElmo Creek Unit P-23 Plug and Abandonment

- 2-08-88 closed csg valve and pumped 2 bbls cement below retainer. Pulled out of retainer and equalized 100' (cont'd) cement plug on top of retainer. Circ hole full of mud from 3940'. POOH.
- 2-09-88 RIH and set retainer @ 3600'. Circ thru retainer behind pipe. POOH. RIH w/ Baker R-3 pkr and tested csg for leaks. Found bad pipe 3600' to 2658'. POOH w/ pkr. RIH w/ open ended tbq and equalized cement plug from 3562' to 2700'. POOH.
- 2-10-88 Set retainer @ 2533' and squeezed below retainer w/ 92 bbls cement. Equalized 100' cement plug on top of retainer. Circ hole full of mud 2433' to 1396'. Equalized 100' cement plug from 1396' to 1296'. Filled hole w/ mud from 1296' to 100'. Equalized 100' surface plug. Pumped 1.5 bbls cement into bradenhead. RDHO rig. Cut off wellhead and welded on dry hole marker.

NOTE: Changes from the original approved procedure were discussed w/ and approved by Mr. John Keller on 2-5-88 and w/ Mr. Earl Beecher on 2-8-88.